BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

BYATARAYANAPURA DIVISION

BYATARAYANAPURA SUB DIVISOIN

Name of the Work	:	**Desilting of drains and Construction of Tank and providing pumpset for De-Watering in Flood Areas in ward no 06, Byatarayanapura Sub Division**

EMB
Detail Measurements

Job Code	:	006-23-000002

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BRUHATH BANGALORE MAHANAGARAPALIKE
YELAHANKA ZONE
1ST AND FINAL BILL

Name of work: Desilting of drains and Construction of Tank and providing pumpset for De-Watering in Flood Areas in ward no 06, Byatarayanapura Sub Division
Work Order No: BBMP/EE/BTP/WO/72/2022-23 dt: 18.11.2022
JOB NUMBER: 006-23-000002
Estimate Cost: 40.00 Lakhs.
As No: AS/CE(YNK)/15/2022-231 Dt: 20.08.2022
Ts No :TS/CE(YNK)/53/2022-231 Dt: 20.08.2022
Name of Contractor : Sri. Dhananjaya M.L

Sl No	Description of Item	Unit	No	L	B	D	QTY	Rate	Amount
1	Earth work excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work. Depth exceeding 1.5m, but not exceeding 3 m (PWD SR 2021-22 Vol -I Pg 5 item No. 1.4.1)								
		Cum							
	Qty Recorded as per Premeasurement Page No. is 1 of 3,						674.26	213.00	143617.38
2	KSRB 2.8 : Providing and Filling in foundation with **granite / trap** broken metal 100mm. and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift. complete as per specifications. Specification No. (PWD SR 2021-22 Vol -2 CORRIGENDA,item No. 6.4)								
		Cum							
	Qty Recorded as per Premeasurement Page No. is 2						26.82	2817.00	75551.94
3	Providing and laying in position **plain cement concrete** for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. Mix **1:3:6 (M10) Using 40** mm nominal size graded crushed coarse aggregates. Specification (PWD SR 2021-22 Vol -I Pg 15 item no 2.1.3)								
		Cum							
	Qty Recorded as per Premeasurement Page No. is 2 to 3						47.17	6109.00	288161.53
4	Providing and constructing load bearing wall with **Solid Concrete blocks of size 400x200x200mm** having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications. (PWD SR 2021-22 Vol -II Pg 17 item no 6.32)								
	For Dewatering - Sump tank wall								

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	Description of Item	Unit	No	L	B	D	QTY	Rate	Amount
	Fathima Layout - Long Wall	Cum	2x2	6.95		1.90	52.82		
	Short wall		2x2	2.70		1.90	20.52		
	Defence Layout		2x2	6.50		1.90	49.40		
			2x2	2.85		1.90	21.66		
	Dynasty Layout		2x2	6.65		1.90	50.54		
			2x2	3.15		1.90	23.94		
	Fathima Layout -**Inlet tank**	Cum	1	1.50		1.00	1.50		
			2	1.45		1.00	2.90		
	Defence Layout		1	1.45		1.00	1.45		
			2	1.10		1.00	2.20		
	Dynasty Layout		1	1.45		1.00	1.45		
			2	1.10		1.00	2.20		
					Total		**230.58**		
					Ltd to		**227.78**	1315.00	**299530.70**
5	**Providing Flush / Ruled/ Struck or weathered pointing Pointing** on brick work or brick flooring with cement mortar 1:3 (1 cement : 3 fine sand) after raking joints to depth nicely lining, including cost of materials, labour, curing as per specifications and as per directions of Engineerin- charge .**(PWD SR 2021-22 Vol II Pg 44 item no 8.17.1)**								
	Fathima Layout	Cum	2	6.15		1.90	23.37		
			2	2.70		1.90	10.26		
	Defence Layout		2	5.70		1.90	21.66		
			2	2.85		1.90	10.83		
	Dynasty Layout		2	5.85		1.90	22.23		
			2	3.15		1.90	11.97		
	Fathima Layout Inlet	Cum	1	1.05		1.00	1.05		
			1	1.45		1.00	2.90		
	Defence Layout		1	1.05		1.00	1.05		
			2	1.10		1.00	2.20		
	Dynasty Layout		1	1.05		1.00	1.05		
			2	1.10		1.00	2.20		
						Total	**110.77**	151.00	**16726.27**
6	Providing and laying in position **Reinforced cement concrete** for all Foundation works. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticizers laid in finished layers, well compacted using needle vibrators, including all lead & lifts, cost of materials, quality confirming to the requirements of relevant IS codes , labour, Usage charges of machinery, curing and all the other appurtenances required to complete the work as per technical specifications. M25 Design Mix Using 20 mm nominal size graded crushed coarse aggregates with 20% partial replacement with Recycled concrete aggregate (RCA). **(PWD SR 2021-22 Vol -I Pg 15 item no 2.2.2.1)**								
a	For bottom Concrete	Cum	1	2.70	6.15	0.18	2.99		
			1	2.85	5.70	0.17	2.76		
			1	3.15	5.80	0.15	2.74		
							8.49		

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	Description of Item	Unit	No	L	B	D	QTY	Rate	Amount
	inlet		1	1.10	1.45	0.15	0.24		
			1	1.05	1.05	0.15	0.17		
			1	1.05	1.05	0.15	0.17		
b	For roof Fatima layout sump	Cum	1	3.50	6.95	0.16	3.89		
	Defence		1	3.65	6.50	0.16	3.80		
	Dynasty		1	3.95	6.65	0.16	4.20		
					Total		**20.95**		
					Ltd to shedule qty		**20.95**	7892.00	**165337.40**
7	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, **Drain works & other parallel works** from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. M20 (The cost of steel reinforcement & formwork to be paid separately) **(PWD SR 2021-22 Vol -I Pg 17 item no 2.4.2)**									
a	**Drain Bottom Raft**								
	Fathima Layout	Cum	1	11.70	1.05	0.15	1.84		
			1	10.00	1.05	0.15	1.58		
			1	25.30	1.05	0.15	3.98		
			4	2.00	1.05	0.15	1.26		
	Defence Layout		1	12.50	1.05	0.15	1.97		
	Dynasty Layout		1	2.50	1.05	0.15	0.39		
			1	30.00	1.05	0.15	4.73		
			1	30.00	1.05	0.15	4.73		
			2	19.50	1.05	0.15	3.07		
b	**For drain Side Wall**								
	Fathima Layout	Cum	2	11.70	0.15	0.60	2.11		
			2	10.00	0.15	0.60	1.80		
			2	25.30	0.15	0.60	4.55		
			4	2.00	0.15	0.60	0.72		
	Defence Layout		2	12.50	0.15	0.60	2.25		
	Dynasty Layout		2	2.50	0.15	0.65	0.49		
			2	30.00	0.15	0.65	5.85		
			2	30.00	0.15	0.65	5.85		
			2	19.50	0.15	0.65	3.80		
c	**For Culverts**								
	Bottom Concrete Fathima Lay	Cum	2	6.00	1.35	0.15	2.43		
	Defence Layout		1	7.50	1.35	0.15	1.52		
d	**Side Wall -** Fathima Lay	Cum	4	6.00	0.33	0.65	5.15		

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	Description of Item	Unit	No	L	B	D	QTY	Rate	Amount
	Defence Layout		2	7.50	0.32	0.65	3.12		
	ramp		4	6.00	0.30	0.10	0.72		
			2	7.50	0.30	0.10	0.45	4.29	443564.33
					Total		64.35	6893.00	443585.23
8	Providing Thermo-Mechanically **Treated bars of grade Fe-500D** or more Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position, binding and anchoring to adjacent members whereever necessary complete as per Design including cost of material, labour, usage charges complete as per specifications. (The laps and wastages shall not be measured separately) **(PWD SR 2021-22 Vol -II Pg 84 item no 11.32)**								
		Mtrs							
	Qty Recorded as per Premeasurement Page No. is 3						2513.79	105.00	263947.95
9	Supplying, Fitting and Placing **TMT Fe550 bar Reinforcement** in sub-structure complete as per Drawing and Technical Specifications. MORTH Specification NO.1600&2200 (PWD SR 2021-22 Vol -III Pg 99 item no 13.1)								
		Tonne							391333.82
	Qty Recorded as per Premeasurement Page No. is 3 - 4						3.860	101387.00	391332.82
10	Providing and Fixing **pre cast covering Slab 100mm** thick made out of CC , Jelly 20mm Down Size with steel reinforcement including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc, complete as per Engineer incharge. (Data Rate)								
	Fathima Layout	Sq mt	1	11.70	0.90		10.53		
			1	10.00	0.90		9.00		
			1	25.30	0.90		22.77		
	Defence Layout		1	12.50	0.90		11.25		
	Dynasty Layout		1	2.50	0.90		2.25		
			1	30.00	0.90		27.00		
			1	30.00	0.90		27.00		
				9.50	0.90		17.55		
	missing slabs			14.20	0.90		12.78		
				14.00	0.90		12.60		
						Total	152.73	2072.00	316456.56

09.12.2022
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09/12

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	Description of Item	Unit	No	L	B	D	QTY	Rate	Amount
11	Providing and Fixing **pre cast covering Slab 230mm thick** made out of CC , Jelly 20mm Down Size with steel reinforcement including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc, complete as per Engineer incharge. (Data Rate)								
	Fathima Layout	Sq mt	2	6.00	1.20		14.40		
	Defence Layout		1	7.00	1.20		8.40		
	for repair		2	1.20	0.60		1.44		
						Total	**24.24**		
						ltd	**24.00**	5037.00	**120888.00**
12	Loading and Unloading of Stone Boulder/Stone aggregates/ Sand/Kankar/Moorum. (Tipper 14 m3) (PWD SR 2021-22 Vol-III Page No.3, Item No.1.1C)								
	Excavated Earth	Cum	From Item No.1				674.26	81.10	54682.49
13	Cost of Haulage Excluding Loading and Unloading Taking output 18 t load and lead 10 km = 180 t.km (PWD SR 2021-22 Vol-III Page No.3, Item No.1.4B)								
	Qty frm Item No-1	t.Km					**674.26**	115.00	**77539.90**
	Basic rate								
	Area weightage 10%								
	Total								
14	**Providing Lubi make 10 HP 3 Phase dewatering submersible pump** with outlet 4"								
	10 hp	No	1				**1**	106525.00	**106525.00**
15	**Providing Lubi make 15 HP 3 Phase dewatering submersible pump** with outlet 6" LHP 61535 @ 8 mtrs 240 m3/hr=4000lpm								
	15 HP	No	2				**2**	191550.00	**383100.00**
16	Providing and fixing MS cover with frame made up of L angle of size 1.20 m x1.20 m								
		Nos	3				**3**	15000.00	**45000.00**
17	Labour charges for Erection, Electrification and commissioning of Pump sets, including aligning and balancing of all items including supply and erection of two pair of supporting clamps, bore well caps, cable clips and water tight gland cable protectors, bolts, nuts, valve and gauges,tools and equipments etc., involved in the job as per specifications, with necessary tests as per specifications, with testing of as per instructions of engineer incharge of work. (PWD SR 2021-22 Vol-V Page No.163, Item No.38)								
	Fatima Layout	Job	1				1		
	Defence Layout-2nd cross		1				1		
	Dynasty layout - 2nd main		1				1		
							3	6334.00	**19002.00**

30.01.2022
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30/01/2022
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	Description of Item	Unit	No	L	B	D	QTY	Rate	Amount
18	Supplying PVC ringtite pipes conforming to IS 4985:2000 with latest amendments and conveying to worksite, rolling and lowering into trenches, laying true to line and level and perfect linking at joints, testing and commissioning, including loading unloading at both destinations and cuts of pipes wherever necessary including jointing of PVC pipes and specials (excluding cost of specials) with jointing of approved type, with all labour with all lead & lift including encasing the pipe alround to a depth of not less than 15 cms. with soft gravel or selected earth available from the excavation etc. complete and giving necessary hydraulic test to the required pressure as per ISS (Contractor will make his own arrangements for procuring water for testing) etc. for:(Water supply & UGD works common shedule of rate 2021-22 Vol-V Page No 134, Item No.1.90) PVC pipes 110mm dia., 6 kg/sqcm & class 3 m								
	Fatima Layout	mtr	1	18.00			18.00		
				Ltd to shedule qty			**15.00**	394.00	**5910.00**
19	PVC pipes 160mm dia., 6 kg/sqcm & class 3								
	Defence Layout-2nd cross	mtr	1	15.00			15.00		
	Dynasty layout - 2nd main		1	15.00			15.00		
							30.00	599.00	**17970.00**
20	Supply and delivery at site special moulded variety PVC elbows as per IS 7834/ 1987 and fabricated as per IG124/ 1984 with ISI mark with its latest amendments (Water supply & UGD works common shedule of rate 2021-22 Vol-V Page No 37, Item No. 7)**110 mm dia PVC Elbows**								
	Fatima Layout	No	3				3	315.00	**945.00**
21	**160 mm dia PVC Elbows**								
	Defence Layout-2nd cross	No	3				3		
	Dynasty layout - 2nd main		3				3		
							6	491.00	**2946.00**
22	Supply and delivery at site special moulded variety **PVC couplers** as per IS 7834/ 1987 and fabricated as per IG124/ 1984 with ISI mark and with its latest mendments (Water supply & UGD works common shedule of rate 2021-22 Vol-V Page No 136, Item No. 6)								
	110mm dia PVC couplers	No	3				3	178.00	**534.00**
23	160mm dia PVC couplers								
	Defence Layout-2nd cross	No	3				3		
	Dynasty layout - 2nd main		3				3		
							6	349.00	**2094.00**
24	Supply and delivery at site GM (copper alloy) gate valves confirming to Class-1 as per IS 778 with latest amendments, 1 No. screwed in bonnet inside screw, rising spring spindle integral seat screwed females ends confirming to IS 554/ 1990 body hydraulically tested 1.5HP seat standard tested 1 HP with IS mark.(Water supply & UGD works common shedule of rate 2021-22 Vol-V Page No 147, Item No. 16) For **100 mm dia GM (Copper alloy) Gate valves**								

30.01.2023

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ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26

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	Description of Item	Unit	No	L	B	D	QTY	Rate	Amount
	Fatima Layout	No	2				2	1962.00	3924.00
25	For 150 mm dia GM(copper alloy) gate valve								
	Defence Layout-2nd cross	No	2				2		
	Dynasty layout - 2nd main		2				2		
							4	2622.00	10488.00
26	**Supplying of 1.1KV LT UG cable** XPLE or heat resistant PVC Insulated PVC eatruded inner sheath armoured UG LT cable as per IS -1554(Part-1) or IS-7098 Part-1,Armouring strip thickness in average +5% and resistivity 14ohms/kms(max) as per IS -3975 4 core 16sqmm **(Ele SR 2019-20 P-No 40 I/No-6.4.4)**								
	Fatima layout	**Rmtr**	1	20.00			20.00		
	Defence layout		2	20.00			40.00		
							60.00	150.00	**9000.00**
27	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe/ stone pipe / on wall/ on pole as required 6 sqmm to 16 sqmm. (Ele SR OF 2019-20 P-No 41 I/No-6.5.1)								
	Fatima layout	**Rmtr**	1	20.00			20.00		
	Defence layout		2	20.00			40.00		
							60.00	11.80	**708.00**
28	**Supplying and drawing 3 core flat PVC sheathed** submersible pump cable manufactured with electrolytic grade copper with flexible copper with low resistance conductor confirming to13:8130-1984 and virgin grade PVC insulation and powder coating extruded PVC sheathed suitable for working voltage upto 1100 V as per IS-694:2010. 3C x 6 mm2 **(PWD Electrical SR 2022-23 Vol-VI Page No.4, Item No.2.6.4)**								
	Fatima layout	**Mtr**	1	20.00			20.00		
	Defence layout		2	20.00			40.00		
							60.00	242.00	**14520.00**
29	**Supplying fully automatic star-delta starter** unit push button type with suitable wires, 3 contactors, one adjustable thermal timer mounted on a common base plate held in steel enclosure for use on 400/440 V 3 phase and wired after fixing to the existing wooden board for motor Above 12.5 HP upto 25 HP **(PWD Electrical SR 2022-23 Vol-VI Page No.10, Item No.5.2.2)**								
		Each	3				3	8640.00	**25920.00**
30	**Fabricating supplying and mounting MS box of 16 SWG** suitable for floor /wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clA with necessary cable entry pipe with gland and box should be finished with 7tanks treatment with powder coated paint and finally finished with approved colour etc., complete. **(PWD Electrical SR 2022-23 Vol-VI Page No.15, Item No.5.42.2)**								
	Outdoor box	sq.cm	3	1100.00	20.00		66000	0.35	**23100.00**

SR item No 25 to 30.

20.01.2023

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	Description of Item	Unit	No	L	B	D	QTY	Rate	Amount
31	**Labour charges for erection of outdoor** type panel board and meter boardunits with all necessary materials and labour, tools and equipments including providing cement concrete foundation bed etc., complete as per specification, with testing of as per instructions of engineer incharge of work. **(PWD SR 2021-22 Vol-V Page No.163, Item No.40)**								
	Fatima Layout	Job	1				1		
	Defence Layout-2nd cross		1				1		
	Dynasty layout - 2nd main		1				1		
					Total qty		3		
				Ltd to shedule qty			**1**	**1390.50**	**1390.50**
32	Supply and fixing polished wood board made of not less than 15mm thick plankn both sides of not more than 2 pieces and fixing the same to the wall using tapered inverted wooden plugs screws 20" x 20" x 2.5" (PWD Electrical SR 2022-23 Vol-VI Page No.4, Item No.5.6.6)								
	Defence Layout	Nos	1				1		
	Fatima Layout		1				1		
	Dynasty Layout		1				1		
					Total qty		3	315.00	**945.00**
						3331379.99	**Sub total**		**3331380.00**
							GST Charges (18% of estimated cost)		**599648.00**
33	**Bescom deposit**								
	Defence Layout		1				**1**	14100.00	**14100.00**
	Fatima Layout		1				**1**	21090.00	**21090.00**
	Dynasty Layout		1				**1**	21090.00	**21090.00**
								Grand Total	**3987308.00**

Item No 3.1.4.033

Round off 3987000.00

30/01/2023

Assistant Engineer
ವಿ.ವಿ.ಎಂ.ಪಿ ವ್ಯಾ Ward No. 06

30/01

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
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ವಿ.ವಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26

30/01/2022

Assistant Executive Engineer
Byatarayanapura Sub Division
ವಿ.ವಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26

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